AMENDMENTS

In the Claims:

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This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently Amended) A method for identifying infected program 1 2 instructions, comprising the steps of: inserting a dynamic execution layer interface (DELI) between computing 3 device hardware and the program instructions; 4 monitoring the program instructions as they enter the DELI to determine if the 5 eode has program instructions have been previously processed by the computing 6 device hardware cached within the DELI, wherein the determination of whether the 7 program instructions have been cached is responsive to an association between native 8 application code and one or more analogues that have been transformed within the 9 DELI; and when it is the case that the application code has program instructions have 10 not been previously processed cached within the DELI, 11 analyzing the program instructions to determine if the program instructions are 12 infected. 13

- 2. (Original) The method of claim 1, wherein the step of analyzing the program instructions comprises an investigation of the contents of instructions within code fragments.
- 3. (Original) The method of claim 1, wherein the step of analyzing the program instructions comprises inserting decrypted program instructions into a virus detection manager.
- 4. (Original) The method of claim 3, further comprising the step of:
 releasing program instructions from the virus detection manager when infected
 program instructions are not detected.

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means for gaining control over execution of program instructions.

1	11. (Original) The system of claim 9, further comprising:
2	means for executing program instructions.
1	12. (Original) The system of claim 9, wherein the means for intercepting
2	comprises a dynamic execution layer interface (DELI).
1	13. (Original) The system of claim 9, wherein the means for analyzing the
2	intercepted program instructions comprises a virus detection manager.
1	14. (Original) The system of claim 13, wherein the virus detection
2	manager comprises a controller configured to apply a plurality of virus detection tests
3	over the contents of the intercepted program instructions.
1	15. (Currently Amended) A virus detection program stored on a computer
2	readable medium, comprising:
3	logic configured to intercept program instructions;
4	logic configured to transform the program instructions;
5	logic configured to determine if the intercepted program instructions have not
6	been processed by a computing device responsive to an association between
7	application code and one or more analogues that have been cached within a dynamic
8	execution layer inserted between a processor and program instructions; and
9	logic configured to determine when the intercepted program instructions that
10	have not been processed by the computing device are infected with a virus.
1	16. (Original) The program of claim 15, further comprising:
2	logic configured to gain control over execution of intercepted program
3	instructions.
1	17. (Original) The program of claim 15, further comprising:
2	logic configured to execute program instructions.

1	18. (Original) The program of claim 15, further comprising:
2	logic configured to forward non-infected intercepted program instructions to
3	the computing device.
1	19. (Original) A computer system, comprising:
2	a processor;
3	an execution memory;
4	a dynamic execution layer interface (DELI) residing between at least one
5	application and the processor, wherein the DELI comprises:
6	a core configured to cache and execute certain application code
7	fragments;
8	an application programming interface configured to provide access to
9	caching and executing functions of the core to a virus detection manager; and
10	a system control and configuration layer configured to provide policies
11	for operation of the core.
1	20. (Original) The system of claim 19, wherein the virus detection
2	manager is configured to apply at least one virus detection test on the contents of
3	application code fragments.
1	21. (Original) The system of claim 19, wherein the core is configured to
2	process executable application code fragments from the at least one application that
3	have not been previously sent to the processor.
1	22. (Original) The system of claim 21, wherein the virus detection
2	manager controls whether application code fragments are released to the processor.
1	23. (Original) The system of claim 22, wherein application code fragmen
2	that contain at least one virus signature are not released to the processor.

- 1 24. (Original) The system of claim 22, wherein application code fragments
- that behave in a manner consistent with known virus attacks are not released to the
- 3 processor.

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